

DESCRIPTION	QTY	UNIT	TOTAL UNIT COST	TOTAL COST
CAPITAL COST FOR NEW CELLS IN FUTURE YEARS (DOES NOT INCLUDE PUMPING AND PIPING COST)				

Sludge Disposal Bed (per each)				
Excavation	25,000	C. Y.	3.30	\$82,500
Subgrade Preparation	5	Acres	3,300.00	\$16,500
Subgrade Stabilization	10,500	C. Y.	4.40	\$46,200
Liner Protection Sand	8250	C. Y.	19.80	\$163,350
Drain Rock	1,950	C. Y.	19.80	\$38,610
Ditch Lining Geotextile	21,200	S. Y.	1.82	\$38,478
G C L	18,100	S. Y.	4.46	\$80,636
H D P E Geomembrane	18,100	S. Y.	5.94	\$107,514
H D P E Pipe, 10"	550	L. F.	25.30	\$13,915
Erosion Control Matting	11800	S.Y.	1.65	\$19,470
Perf Pipe, 4"	2000	L. F.	2.20	\$4,400
Perf Pipe, 6"	580	L. F.	3.30	\$1,914
HDPE Pipe, 6"	130	L. F.	2.75	\$358
Strip Drains	700	L. F.	1.93	\$1,348
Valves, 6" Knife Gate	2	Each	770.00	\$0
Valves, 10" Knife Gate	6	Each	1,100.00	\$0
Air/Vacuum Release Valve	1	Each	2,200.00	\$0
Valve Vault	6	Each	2,145.00	\$0
Water Tight Manhole	1	Each	3,850.00	\$0
Vertical Filtrate Drains	6	Each	4,400.00	\$0
Cleanouts	2	Each	825.00	\$0
Perimeter Road Embankment (not reduced)	28275	C. Y.	11.00	\$311,025
Chain Link Fence and Gates (not reduced)	1000	L.F.	13.20	\$13,200
Groundwater Monitoring Wells	2	Each	6,600.00	\$0
Crushed Rock Surfacing (not reduced)	1500	C. Y.	16.50	\$24,750

SUBTOTAL		\$1,213,152
MISC ALLOWANCE	10%	\$121,315
SUBTOTAL		\$1,334,467
CONTINGENCY	30%	\$400,340
SUBTOTAL		\$1,734,807
MOBILIZATION	15%	\$260,221
CONSTRUCTION TOTAL		\$1,995,028
SALES TAX ON MATERIALS	5.0%	\$27,572
ENGINEERING AND SUPPORT	20%	\$399,006
CONSTRUCTION MANAGEMENT	8%	\$159,602

CAPITAL COST SUBSEQUENT BEDS TOTAL (ROUNDED) \$2,580,000

ANNUAL O&M COST FOR OPERATING BED \$72,000

NPV OF ANNUAL O&M COSTS (30 YEARS @ 7% INTEREST) \$889,000

NPV OF INITIAL AND SUBSEQUENT BEDS & CLOSURES CAPITAL COSTS @ 7% INTERE \$11,376,000

TOTAL 30-YEAR PRESENT WORTH COST @ 7% INTEREST \$12,265,000

NOTES:
Misc Allowance markup is to include items known to exist but cannot be quantified at this time.
Contingency is for scope changes that are presently unforeseen.
Mobilization includes bonds, insurance, temporary facilities, health & safety, demobilization, etc.

NOTE: The above cost opinion is in November 2000 dollars and does not include escalation.
The order of magnitude cost opinion shown has been prepared for guidance in project evaluation at the time of preparation. The final costs of the project will depend on actual labor and material costs, actual site conditions, productivity, competitive market conditions, final project scope, final schedule and other variable factors. As a result, the final project costs will vary from those presented above. Because of these factors, funding needs must be carefully reviewed prior to making specific financial decisions or establishing final budgets.